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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/885,166	06/21/2001	Tatsuhisa Fujii	501.33961R00	3985
20457	7590 07/10/2002			
ANTONELLI TERRY STOUT AND KRAUS			EXAMINER	
	SEVENTEENTH STR	EET	CHOWDHURY, TARIFUR RASHID	
ARLINGTON	ARLINGTON, VA 22209		ART UNIT	PAPER NUMBER
			2871	
			DATE MAILED: 07/10/2002	2

Please find below and/or attached an Office communication concerning this application or proceeding.

·		, in				
	Application No.	Applicant(s)				
Office Action Commons	09/885,166	FUJII ET AL.				
Office Action Summary	Examiner	Art Unit				
TI MAN INO DATE Africa communication and	Tarifur R Chowdhury	2871				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on	<u> </u>					
2a) This action is FINAL . 2b) ☑ Thi	is action is non-final.					
3) Since this application is in condition for allowa						
closed in accordance with the practice under a Disposition of Claims	Ex parte Quayle, 1935 C.D. 11, 4	.53 O.G. 213.				
4)⊠ Claim(s) <u>1-37 and 47-61</u> is/are pending in the						
4a) Of the above claim(s) is/are withdray	vn from consideration.					
5)⊠ Claim(s) <u>1-24,47 and 48</u> is/are allowed.						
6)⊠ Claim(s) <u>25-37 and 49-61</u> is/are rejected.	· ·					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or Application Papers	r election requirement.					
9) The specification is objected to by the Examine						
10) \boxtimes The drawing(s) filed on <u>06/210/01</u> is/are: a) \square a		Evaminer				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Ex	aminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents	s have been received in Applicati	on No. <u>08/523,842</u> .				
Copies of the certified copies of the prior application from the International But See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).					
14) Acknowledgment is made of a claim for domesti	·					
a) The translation of the foreign language pro						
15) Acknowledgment is made of a claim for domesti	· ·					
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6 	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)				
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U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Art Unit: 2871

DETAILED ACTION

Reissue Applications

1. Applicant is reminded of the continuing obligation under 37 CFR 1.178(b), to timely apprise the Office of any prior or concurrent proceeding in which Patent No. 5,914,763 is or was involved. These proceedings would include interferences, reissues, reexaminations, and litigation.

Applicant is further reminded of the continuing obligation under 37 CFR 1.56, to timely apprise the Office of any information which is material to patentability of the claims under consideration in this reissue application.

These obligations rest with each individual associated with the filing and prosecution of this application for reissue. See also MPEP §§ 1404, 1442.01 and 1442.04.

The examiner has thoroughly reviewed the reissue application in light of the prosecution history of the parent application for issues directed to recapture. Claims 1-24 do not broaden in order to recapture subject matter, which was added/argued in the parent application to overcome a rejection. Further, newly added claims 25-37 and 47-61 present a scope, which has not been previously considered.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the features such as the plurality of lead out wirings including a first portion being substantially parallel to the display electrodes or scanning signal lines or video signal lines and a second portion

Application/Control Number: 09/885,166

Art Unit: 2871

being substantially parallel to the terminal electrodes must be shown in detail (emphasis added) or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

The disclosure is objected to because of the following informalities:
 The drawings need to be described in details in the body of the specification.
 Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- **5.** Claims 25-37 and 47-61 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 25-37 and 47-61, applicant recites that the inclined linear wiring electrodes are substantially parallel to each other. However, it is not clear from the recitation whether all the inclined linear wiring electrodes are mutually parallel to each other or only a set of two inclined linear wiring electrodes are parallel to another set of two inclined linear wiring electrodes or only one inclined linear electrode is parallel to another inclined linear wiring electrode.

Application/Control Number: 09/885,166 Page 4

Art Unit: 2871

For examination purposes the examiner has assumed that at least one of the inclined linear wiring electrode is substantially parallel to another inclined linear wiring electrode.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 25, 26, 30, 33, 36/33, 37/33, 49, 50, 54, 57, 60/57 and 61/57 are rejected under 35 U.S.C. 102(b) as being anticipated by applicant's admitted prior art (AAPA).
- 8. The AAPA described and shown in Fig. 28, discloses a liquid crystal display suitable for high quality display comprising:
- a pair of liquid crystal device substrates arranged so as to be opposite to each other and joined together by a sealant with a liquid crystal interposed therebetween (col. 1, lines 30-44);
- at least one liquid crystal drive element for driving the liquid crystal (col. 1, lines 47-48);

wherein the liquid crystal display device substrates comprise:

- a plurality of parallel display electrodes (40-1 --- 40-8);
- a plurality of parallel terminal electrodes (41-1 ----- 41-8) led out to an end

Application/Control Number: 09/885,166

Art Unit: 2871

portion of the liquid crystal device substrates, connected to the liquid crystal drive element, and having different pitches from pitches of the display electrodes (Fig. 28); and

- a plurality of lead out wirings for connecting the display electrodes and the terminal electrodes, including first portions being substantially parallel to the display electrodes, second portions being substantially parallel to the terminal electrodes and inclined linear wiring electrodes (42-1 ------- 42-8) for connecting the first portion and second portions; and

wherein the inclined linear wiring electrodes are substantially parallel to each other at least in an area of the liquid crystal side of the sealant; and

wherein lengths of at least one of the first and second portions and widths of the inclined linear wiring electrodes vary.

Accordingly, claims 25 and 49 are anticipated. As to claim 30, the AAPA showed in Fig. 28 also shows that the inclined linear wiring electrodes that are connecting the terminal electrodes are not parallel to the display electrodes.

As to claims 26 and 50, it is clear from Fig. 28 of the AAPA that the pitches of the terminal electrodes are smaller than the pitches of the display electrodes.

As to claims 33, 54, 57, the AAPA described in the present application and shown in Fig. 28 also discloses that the lead out wirings connected to the terminal electrodes positioned at least an outer portion have inclined linear wiring electrodes which are not parallel to the display electrode.

As to claims 36/33 and 60/57, it is clear from Fig. 28 of the AAPA that the pitches of the inclined linear wiring electrodes are substantially (emphasis added) equal to each other.

As to claims 37/33 and 61/57, the AAPA shown in Fig. 28 also shows that the lead out wirings have portions which are parallel to the terminal electrodes, and wherein lengths of the portions vary.

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 11. Claims 27, 28, 31, 32, 34, 35, 36/(34,35) 37/(34, 35), 51, 52, 55, 56, 58, 59, 60/(58,59) and 61/(58,59) are rejected under 35 U.S.C. 103(a) as being

Application/Control Number: 09/885,166

Art Unit: 2871

unpatentable over AAPA as applied to claims 25, 26, 30, 33, 36/33, 37/33, 49, 50, 54, 57, 60/57 and 61/57 above.

- 12. As to claims 27, 28, 31, 32, 34, 35, 36/(34,35), 37/(34, 35), 51, 52, 55, 56, 58, 59, 60/(58, 59) and 61/(58,59), it is common and known in the art that when the liquid crystal display of the AAPA would be applied to the active matrix liquid crystal display, the display electrodes are scanning signal lines or video signal lines in the substrate wherein the switching devices are installed.
- 13. Claims 29/(25,27,28) and 53/(49,51,52) are rejected under 35 U.S.C. 103(a) as being unpatentable over AAPA as applied to claims 27, 28, 31, 32, 34, 35, 36/(34,35) 37/(34, 35), 51, 52, 55, 56, 58, 59, 60/(58,59) and 61/(58,59) above and in view of Shinichi et al., (Shinichi), JP 06-067191 (provided by the applicant).
- 14. The AAPA differs from the claimed invention because it does not explicitly disclose that the resistances of each lead out wirings are substantially equal.

Shinichi discloses a liquid crystal display including terminal electrodes, display electrodes and lead out wirings connecting the terminal electrodes and the display electrodes. Shinichi also discloses that by setting the resistances of each lead out wirings substantially equal to each other, it is possible to obtain a liquid crystal display that is capable of performing uniform display as a whole.

Shinichi is evidence that ordinary workers in the art of liquid crystal would find a reason, suggestion or motivation to set the resistances of each lead out wirings substantially equal to each other.

Art Unit: 2871

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the liquid crystal display of the AAPA such that set the resistances of the lead out wiring substantially equal to each other so that a liquid crystal display that is capable of performing uniform display as a whole is obtained, as per the teachings of Shinichi.

Allowable Subject Matter

15. Claims 1-24, 47 and 48 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tarifur R Chowdhury whose telephone number is (703) 308-4115. The examiner can normally be reached on M-Th (6:30-5:00) Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William L Sikes can be reached on (703) 305-4842. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-7005 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-

1782.

TRC

July 09, 2002

Patent Examiner

Technology Center 2800

Page 8